



# WEB SURFING SCIENCE!

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Part I: Calculating Speed and Velocity

## Part II: Forces

## Part III: Forces and Motion

### Part I: Calculating Speed and Velocity

Web Address:

<http://www2.franciscan.edu/academic/mathsci/mathscienceintegration/MathScienceIntegration-827.htm>

1. What is the difference between speed and velocity?

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2. What is the formula to calculate speed?

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3. Use a calculator to solve problem #2.

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4. Use a calculator to solve problem #5.

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### Part II: Forces

Web Address: [http://www.bbc.co.uk/schools/ks3bitesize/science/energy\\_electricity\\_forces/forces/revise1.shtml](http://www.bbc.co.uk/schools/ks3bitesize/science/energy_electricity_forces/forces/revise1.shtml)

1. According to the website, there are two things that can happen if forces on an object are unbalanced. List the two things below:

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2. Two forces are acting upon a large truck. One force is moving to the right 120N and another force is moving to the left at 50N. In which direction will the truck move?

Are the forces balanced? \_\_\_\_\_

3. Calculate the resultant force for the scenario in Question 2.

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### Part III: Forces and Motion

Web Address: <http://phet.colorado.edu/en/simulation/forces-and-motion>

1. Why is the small crate not moving?

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2. What do you have to do to move the small crate?

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\_\_\_\_\_

3. What forces are affecting the motion of the small crate?

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4. Choose the textbook for your object to move. Give the textbook a quick shove. What happens after you stop pushing the textbook? Why?

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